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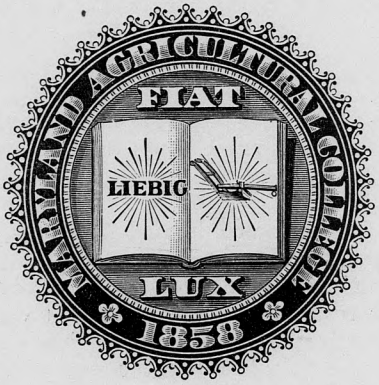

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ADDRESS

Chemical Department, Maryland Agricultural College,

COLLEGE PARK, MD.

ANALYSIS OF

COMMERCIAL FERTILIZERS SOLD IN MARYLAND

BY THE CHEMICAL DEPARTMENT OF THE

MARYLAND AGRICULTURAL COLLEGE.

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The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from August, 1898, to January, 1899, inclusive, the most of the samples were collected during September and October, 1898.

The figures in the columns headed "Ammonia," "Potash" and "Phosphate Acid" are percentages, or pounds per hundred. To get pounds per ton multiply the figures by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The columns headed "No." contain the respective numbers by which the samples are known in the laboratory, and will be found on all the records and reports. In writing to the Chemical Department in regard to analysis the number should always be given. The samples are numbered consecutively on the books of the office, but are arranged alphabetically for publication, which accounts for the mixing up of the numbers.

The "comparative value found" and the "comparative value guaranteed" are calculated, the former from the analysis found, the latter from the analysis guaranteed on the bags, using the following schedule:

In Mixed Fertilizer:	
For Nitrogen, calculated as Ammonia	15 cts. per pound.
" Potash (K_2O), in forms free from muriate	6 " " "
" Potash (K_2O), as muriate	5 " " "
" Available Phosphoric Acid	5 " " "
" Insoluble Phosphoric Acid	2 " " "
" " " " when from S. C. Rock	1 " " "
In Dissolved S. C. Rock:	
Available Phosphoric Acid	4 " " "

In Ground Bone:

For Nitrogen, calculated as Ammonia, in "Fine" Bone.....14 cts. per pound.
" Nitrogen, calculated as Ammonia, in "Fine Medium" Bone.....12 " " "
" Nitrogen, calculated as Ammonia, in "Medium" Bone.....10 " " "
" Nitrogen, calculated as Ammonia, in "Coarse" Bone..... 8 " " "
" Phosphoric Acid in "Fine" Bone..... 5 " "
" " " " "Fine Medium" Bone..... 4 " " "
" " " " "Medium" " ..... 3 " "
" " " " "Coarse" " ..... 2 " "

In Tankage:

For Nitrogen, calculated as Ammonia.....12 " " "
" Phosphoric Acid..... 3 " " "

In using the above schedule *all fertilizers containing less than 1 per cent. of ammonia will be given the rock valuation of 4 cents per pound on the available phosphoric acid.*

The "comparative values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use; this varies considerably, depending on the market prices of the ingredients, freight, commissions, size of order, cash or credit, &c.

Ground bones are put in a separate table, following the table of other fertilizers. Both the chemical and mechanical analysis is given. The mechanical analysis shows the fineness of the bone, and is determined by sifting through a series of sieves with circular perforations (instead of the usual wire) as follows:

Bone passing through 1-50 inch is "Fine."
Between 1-50 and 1-25 inch is "Fine-Medium."
Between 1-25 and 1-12 inch is "Medium."
All which will not pass the 1-12 inch is "Coarse."

Each grade is given its own valuation on both phosphoric acid and ammonia; the chemical composition of each grade beng assumed to be uniform.

Guarantees should be as simple as possible. In Dissolved S. C. Rock (phosphate rock from other States is also used for making phosphate) or acid phosphate, all that is needed is the available phos. acid, which should not be less than 14 per cent.

In mixtures of Acid Phosphate and Kainit or other Potash Salt, the per cent. of Potash should be added, making the essential guaranteed analysis as follows:

Available phosphoric acid.....
Potash .....

In complete fertilizers the ammonia or nitrogen is added, giving:

Available phosphoric acid.....
Potash .....
Ammonia .....

Insoluble Phos. Acid may be added. The "Total" is simply the sum of the available and insoluble. (The "available" is the sum of the "soluble" and "reverted" phos. acid.")

The guaranteed analysis of ground bone should mention only the total phos. acid and ammonia (or nitrogen).

"Bone Phosphate" is simply the phos. acid multiplied by 2 1-5 and given over again in that form.

It is unlawful to print a maximum guarantee on fertilizers in Maryland. The fine for doing so is $100 for the first offense. Those who have been violating the law have been notified, and if they continue to do so will be prosecuted. The law will be enforced.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5217	Alexandria Fertz & Chem. Co., Alexandria, Va.	Ammoniated Dissolved Bone.	Hancock.....
5220	* " " " "	Dissolved S. C. Rock...	Cumberland.....
5222	" " " "	Potomac Phosphate.....	Cumberland.....
5160	A. Anderson & Co., Mt. Airy, Md.	Harvest Queen Phosphate.	Mt. Airy.....
5149	*Armour Fertilizing Wk's, Chicago, Ill.	Grain Grower.....	Ellicott City.....
5276	" " "	Wheat Special.....	Hillsboro'.....
5256	Baltimore Guano Co., Baltimore, Md.	Baltimore Special Mixture.	Baltimore.....
5257	" " "	Farmers' Dissolved Bone.	Baltimore.....
5279	" "	Fish Guano.....	Denton.....
5208	Baltimore Pulverizing Co., Baltimore, Md.	Anti-Acid Phosphate, A. A. P.	Emmitsburg.....
5207	" " "	Penniman's Special Guano, No. 1.	Emmitsburg.....
5110	*Baltimore Seed & Implement Co., Baltimore, Md.	H. G. Acid Phosphate..	Baltimore.....
5261	*Baugh & Sons Co., Baltimore, Md.	Animal Bone and Potash Compound for all crops	Baltimore.....
5169	" " " "	Day's Ammoniated Bone Phosphate.	Monrovia.....
5133	" " " "	Dissolved Animal Bones warranted pure.	Baltimore.....
5182	" " " "	Double Eagle Phosphate.	Gaithersburg.....
5130	" " " "	Export Bone, with Potash.	Baltimore.....
5129	" " " "	Fish Mixture.....	Baltimore.....
5122	" " " "	General Crop Grower for all Crops.	Baltimore.....
5154	" " " "	General Crop Grower for all Crops	Hood's Mills.....
5025	" " " "	General Crop Grower...	Bennett's Point....
5102	" " " "	H. G. Acid Phosphate or Dissolved S. C. Rock.	Baltimore.....
5105	" " " "	P. Dissolved Animal Bones.	Baltimore.....

*These firms have one or more samples of Ground Bone on a later page.

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5217	2.06	2	1.89	2	1.85	9.01	8	10.86	9½	$18.22	16.60
5220	.....	.....	....	.....	1.80	13.98	14	15.78	15	11.18	11.20
5222	1.51	1	1.35	1½	3.55	8.21	8	11.76	9½	15.51	13.10
5160	1.30	1	1.14	1	3.85	9.13	9	12.98	10	15.75	13.40
5149	2.78	2	2.44	2	8.21	8.20	8	16.41	10	22.75	18.00
5276	1.25	1	1.05	1	5.33	8.50	8	13.83	10	15.63	12.80
5256	1.22	1	2.34	2	2.75	8.22	9	10.97	11	15.32	14.80
5257	.....	.....	....	.....	2.05	14.85	14	16.90	15	11.88	11.20
5279	2.07	2	2.07	2	2.36	9.96	8	12.32	....	19.18	16.00
5208	.....	.....	1.16	3½	1.40	5.99	5¼	7.39	6	6.23	7.70
5207	1.26	1	1.25	1	1.50	8.13	8	9.63	.....	13.76	12.00
5110	.....	.....	.....	.....	1.64	13.62	14	15.26	15	10.90	11.20
5261	2.15	2	2.09	2	2.00	9.52	8	11.52	10½	18.86	17.00
5169	2.23	2	2.58	2	1.75	8.96	8	10.71	.....	18.93	16.00
5133	2.25	2	.....	.....	2.12	17.49	15	19.61	19	25.08	22.60
5182	2.99	2½	.87	½	2.31	9.05	8	11.32	10½	19.81	17.00
5130	3.87	2	3.21	2	9.70	4.87	11	14.57	.....	23.57	19.00
5129	2.50	2	2.32	2	.31	9.87	8	10.18	9	19.81	16.00
5122	1.76	1	1.55	1	.85	8.96	8	9.81	9	16.13	12.00
5154	1.55	1	1.71	1	1.78	9.00	8	10.78	9	16.07	12.00
5025	1.57	1	1.79	1	1.21	7.20	8	8.41	.....	14.18	12.00
5103	.....	.....	.....	.....	1.56	14.66	14	16.22	15	11.72	11.20
5105	3.57	3	... .	.....	5.04	12.67	11	17.71	16	25.40	22.00

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5178	Baugh & Sons Co., Baltimore, Md.	Soluble Alkaline Super-Phosphate.	Woodsboro'.....
5167	" " "	S. S. S. Sullivan's Sure Success.	Monrovia.....
5181	" " "	The Old Stand-By Raw Bone Super-Phosphate	Gaithersburg. .....
5121	" " "	Wheat Fertilizer for Wheat and Grass	Baltimore.....
5285	Beck, Walker & Brown Chestertown, Md.	Propagator Super-Phosphate.	Chestertown.....
5286	" " "	Trustworth.....	Chestertown.....
5287	" " "	Try Me Super-Phosphate	Chestertown.....
5205	A. D Birely & Sons, Ladiesburg, Md.	Ammoniated Bone Phosphate.	Linwood.....
5179	" " "	Dissolved Bones.....	Walkersville.....
5224	*Chas. E Bond, Spencerville, Md.	Dissolved S. C. Rock....	Spencerville.....
5237	Brumfield & Foster, Colora, Md.	Acid Phosphate and Potash.	Colora.....
5236	" " "	Ammoniated Bone Phosphate.	Colora.....
5219	" " "	H. G. Acid Phosphate...	Hancock.....
5201	John Burgoon, Union Mills, Maryland	XX Ammoniated Bone Phosphate	Westminster.....
5185	*Chemical Co. of Canton, Baltimore, Md	Baker's Dissolved Bone Phosphate.	Alesia.....
5153	" " "	Baker's Special Wheat Corn and Grass Mixture	Sykesville.....
5200	" " "	Dissolved Animal Bone.	Westminster .....
5158	" " "	Pure Dissolved S. C Bone.	Woodbine.....
5152	" " "	Soluble Bone and Potash.	Sykesville.....
5232	R. L. Christie & Co., Colora, Md.	Farmers' Favorite Bone Phosphate.	Colora.....
5233	" " "	Special for Wheat and Grass.	Colora.....
5235	" " "	Sure Crop Ammoniated Phosphate	Colora.....
5231	*Josiah Cope & Co., Lincoln University, Pa.	Ammoniated Bone Phosphate.	Rising Sun.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5178	.....	.....	1.95	2	2.07	11.54	10	13.61	.....	$11.58	$10.00
5167	2.08	2	1.94	2	2.97	11.47	10	14.44	.....	20.83	18.00
5181	2.26	2	1.35	1	2.52	9.95	8	12.47	10½	19.08	16.00
5121	2.15	2	2.41	2	2.06	8.62	8	10.68	11	18.30	16.00
5285	1.41	1	2.45	2	1.97	10.35	10	12.32	10	17.81	15.00
5286	1.69	1½	2.12	2	1.56	10.65	10	12.21	.....	18.46	16.50
5287	.....	.....	3.02	3	3.45	9.88	10	13.33	11½	11.61	11.30
5205	.80	½	1.03	1	1.73	8.54	8	10.27	.....	12.66	10.50
5179	2.08	2	.....	.....	2 76	10.21	10	12.97	12	17.55	16 00
5224	.....	.....	.....	.....	6.15	14.14	14	20.29	.....	11.31	11.20
5237	.....	.....	2.32	2	2.85	10.13	10	12.98	.....	10.99	10.00
5236	2.17	2	1.63	2	1.63	9.56	9	11.19	10	18.35	17.40
5219	.....	.....	.....	.....	1.86	14.00	14	15.86	.....	11.20	11.20
5201	1.50	1	2.42	2	2.27	7.57	8	9.84	10	15.39	13.80
5185	.00	¼	.....	.....	2.43	13.27	13	15.70	15	10.61	11.15
5153	1.31	1	2.08	2	2 25	8.48	9	10.73	11	15.49	14.00
5200	2.23	2½	.....	.....	2.22	10.95	12	13.17	13	18.52	19.50
5158	.....	.....	.....	.....	2.23	13.70	14	15.93	.....	10.96	11.20
5152	.....	.....	1.88	2	1.74	10.65	10	12.39	12	13.22	12.00
5232	1.14	2	2.17	2	1.54	9.78	9	11.32	11	15.98	17.80
5233	2.09	2	2.16	2	2.17	9.71	10	11.88	13	19.00	19.20
5235	1.18	1	3.41	3	1.88	9.53	9	11.41	11	17.23	15.80
5231	1.01	1	2.03	2	2.41	12.62	10	15.03	12	18.64	15.80

No	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5227	Josiah Cope & Co., Lincoln University, Pa.	Try Me Bone Phosphate.	Rising Sun.....
5255	F. P. Corey, Federalsburg-Md.	Standard Bone Phosphate.	Baltimore.....
5156	Cutshall & Stimmel, Woodsboro', Md.	Ammoniated Bone Phosphate.	Morgan's.....
5155	" "	Dissolved Bone.....	Morgan's.....
5242	Wm. Davidson & Co., Baltimore, Md	"Bos" Ammoniated Super-Phosphate.	Belair.....
5274	" " "	Dissolved S. C. Bone....	Oxford.....
5132	" " "	H. G. Ammoniated Super-Phosphate.	Baltimore.....
5243	" " "	Pen-Mar Ammoniated Bone Phosphate.	Belair.....
5183	E. E. De Lashmutt, Frederick, Md.	Fish and Bone.....	Dickerson .....
5120	L. E. P. Dennis & Son, Crisfield, Md.	Fish and Potash Mixture No. 2	Baltimore.....
5172	*Detrick Fertz and Chem. Co., Baltimore, Md.	Ammoniated Bone Phosphate.	Frederick.....
5268	" " "	Dissolved Bone....., ...	Pocomoke.....
5145	" " "	Dissolved S. C. Bone....	Ellicott City.....
5171	" " "	Farmers' Friend.....	Frederick.....
5165	" " "	Farmers' New Method Phosphate.	Mt. Airy.....
5251	" "	Imperial Compound.....	Baltimore.....
5162	" " "	Royal Crop Grower	Mt. Airy.....
5161	" " "	Soluble Bone Phosphate and Potash.	Mt. Airy.....
5163	" " "	Special Mixture.....	Mt. Airy.....
5164	" " "	Vegetator Ammoniated Super-Phosphate.	Mt. Airy.....
5270	Louis F. Detrick, Baltimore, Md.	Bone and Potash Mixture.	Pocomoke.....
5157	" " "	Orchilla Guano.....	Woodbine.....
5146	J. W. Dorsey, Ellicott City, Md.	Ammoniated Phosphate.	Ellicott City.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5227	1.64	2	3.21	3	3.57	11.03	10	14.60	12	$20.58	$19.88
5255	2.06	2	2.47	2	2.75	11.01	8	13.76	10	20.76	16.80
5156	1.20	1	1.19	1	2.03	8.76	8	10.79	.....	14.35	12.00
5155	2.34	2½	.....	.....	4.47	10.09	10	14.56	.....	18.90	17.50
5242	2.61	2½	3.21	2½	4.21	9.24	8	13.45	11	21.96	19.20
5274	.....	.....	.....	.....	1.85	14.04	14	15.89	16	11.23	11.20
5132	2.93	2¾	2.63	2¾	3.32	11.45	10	14.77	13	24.19	22.20
5243	1.81	1.40	2.68	2½	2.40	8.19	8	10.59	10	17.26	15.50
5183	.77	2	.49	1	3.85	10.72	10	14.57	.....	12.14	17.00
5120	2.12	2½	1.89	2½	1.45	8.50	8	9.95	.....	17.31	18.00
5172	1.68	1½	1.13	1	2.42	9.79	9	12.21	11	16.93	15.30
5268	2.54	2½	.....	.....	3.40	11.90	10	15.30	12	20.88	18.30
5145	.....	.....	..	.....	1.56	14.12	14	15.68	15	11.29	11.20
5171	1.05	1	1.04	1	1.82	10.12	8	11.90	10	15.03	12.80
5165	2.53	2½	.....	... ...	3.65	10.39	8	14.04	9	19.44	15.90
5251	1.02	1	1.04	1	1.51	9.77	9	11.28	10	14.47	13.40
5162	2.05	2	2.11	2	2.78	8.54	8	11.32	9	17.51	17.40
5161	.....	.....	2.09	2	1.75	10.58	10	12.33	12	10.90	10.40
5163	1.09	1	1.03	1	1.57	10.04	8	11.61	10	14.96	12.80
5164	2.73	2½	1.42	1½	2.73	10.51	10	13.24	12	21.21	19.80
5270	....	.....	2.39	2¼	3.53	10.18	10	13.71	12½	11.24	10.75
5157	....	.....	....	.....	11.80	4.50	.....	16.30	.....	6.16	.....
5146	1.60	1½	1.88	1½	2.08	8.75	8	10.83	9½	15.43	14.60

No.	Name and Address Manufacturer.	Name of Fertilizer.	Place of Sampling.
5151	J.W. Dorsey, Ellicott City, Md.	Mixture "D".....	Ellicott City.....
5284	Dudley & Carpenter, Baltimore. Md.	Special Wheat Mixture..	Queenstown.....
5296	T. M. Eliason, Chestertown, Md.	M. P. Dis. Bone Phos. S. C.and Muriate of Pot'h	Betterton.....
5295	T. W. Eliason, Chestertown, Md.	Our Special Dis. Alkaline Phos. and Potash.	Betterton.....
5282	B. Emory, Jr., Centreville, Md.	Pure Diamond Bone Phosphate	Centreville.....
5281	" " "	Special Formula.....	Centreville.....
5283	" " "	XX Special Formula....	Centreville.....
5202	Englar & Rinehart, Linwood, Md.	No. 1 Ammoniated Bone Phosphate.	Linwood.....
5203	" " "	No. 2 Ammoniated Bone Phosphate.	Linwood.....
5190	D. Englar, Jr., Medford, Md.	No. 3 Bone Phosphate..	Medford.....
5229	Eureka Fertz. Co., Perryville, Md.	Alkaline Bone and Potash.	Rising Sun.....
5228	" " "	Grain and Grass Mixture.	Rising Sun.....
5194	Farmers' Fertilizer Co., Westminster, Md.	Acid Phosphate.....	Westminster.....
5197	" " "	Dissolved Animal Bone.	Westminster.....
5195	" " "	No. 1 Bone Phosphate..	Westminster.....
5193	" " "	No. 2 Bone Phosphate...	Westminster.....
5192	" " "	No. 3 Bone Phosphate...	Westminster.....
5191	" " "	XX Bone Phosphate.....	Westminster.....
5215	W. S. Farmer & Co., Balmore, Md.	B. and P. Fertilizer.....	Hancock.....
5216	" " "	Dissolved S. C. Bone....	Hancock.....
5246	" " "	Harvest Queen Phosphate.	Baltimore.....
5273	" " "	No. 1 Potato Manure....	Cambridge.....
5247	" " "	Standard Phosphate.. .	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5151	2.27	2¼	3.17	3	1.12	9.76	9	10.88	11	$20.18	$19.15
5284	.....	.....	1.21	2½	.70	14.67	12	15.37	13½	13.08	12.40
5296	.....	.....	3.16	2½	.58	15.04	13	15.62	15½	15.30	13.40
5295	.....	.....	2.67	1½	.47	11.76	11	12.23	13	12.16	10.70
5282	1.04	1	1.01	1	1.94	9.58	8	11.52	10	14.48	12.80
5281	.....	.....	1.78	2	1.06	11.16	10	12.22	12	10.91	10.40
5283	1.05	1	1.02	2	1.92	9.99	8	11.91	.....	14.92	13.00
5202	2.55	2½	1.15	1.34	2.26	10.45	11	12.71	.....	20.15	20.15
5203	1.74	1.80	2.23	1.83	1.25	10.32	11.99	11.57	.....	18.27	19.27
5190	1.65	1½	2.03	2	1.08	10.14	9½	11.22	11	17.55	16.60
5229	....	.....	1.49	2	4.08	9.51	11	13.59	12	9.90	11.00
5228	1.29	1	2.12	2	3.88	9.09	9	12.97	10	16.63	14.40
5194	.....	.....	....	.....	1.73	14.67	14	16.40	.....	11.73	11.20
5197	2.67	2⅔	....	.....	4.25	12.25	12	16.50	.....	21.96	19.50
5195	2.00	2½	2.41	2½	1.81	9.81	9	11.62	11	18.94	19.80
5193	2.07	2	2.67	2½	2.23	9.50	9	11.73	10	19.27	17.90
2192	1.82	1¾	2.63	2½	2.61	10.18	8	12.79	11	19.31	16.55
5191	1.20	1	1.89	3	2.13	10.81	9	12.94	10	17.15	15.40
5215	.....	.....	1.82	2½	.85	12.22	10	13.07	11½	11.76	10.80
5216	....	.....	.....	.....	2.00	14.55	14	16.55	16	11.64	11.20
5246	1.55	1½	3.23	2½	1.68	10.81	10	12.49	11½	19.36	17.60
5273	2.67	4½	.21	7	4.66	11.93	8	16.59	9	22.01	28.90
5247	2.52	2.85	2.43	2½	1.17	10.03	10	11.20	11½	20.48	21.65

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5271	Farmers and Planters' Co., Salisbury, Md.	Fish Mixture.....	Salisbury.....
5272	" " "	Trucker's Mixture.....	Salisbury.....
5198	N. I. Gorsuch & Son, Westminster, Md.	Dissolved Raw Bone Phosphate.	Westminster.. .....
5199	" " "	Westminster No. 3 Bone XXXX	Westminster.....
5206	Griffith & Boyd, Baltimore, Md.	Ammoniated Soluble Bone.	Union Bridge.....
5124	" " "	Cereal Bone Plant Food.	Baltimore.....
5186	" " "	H. G. Acid Phosphate..	Hampstead .....
5125	" " "	Peerless Fertilizer.....	Baltimore.....
5260	" " "	Pure Dissolved Animal Bone.	Parkton..... ...
5209	" " "	Queen Phosphate.....	Smithsburg .. ....
5111	*Griffith, Turner & Co., Baltimore, Md.	Ammoniated Butchers' Bone Phosphate.	Baltimore.....
5104	" " "	Dissolved Bone.....	Baltimore.....
5188	" " "	H. G. Acid Phosphate..	Glyndon.....
5189	" " "	Soluble Bone Phosphate.	Glyndon .....
5173	*Hanover Bone Fertz. Co., Limited, Hanover, Pa.	Dissolved Bone Phosphate.	Taneytown..... ...
5174	" " "	Dissolved S. C. Rock....	Taneytown.....
5175	" " "	Farmers' Crop Winner .	Taneytown.....
5100	Hanway & Keen, Belair, Md.	H. G. Standard Guano .	Baltimore.....
5108	" " "	Special Mixture.....	Baltimore .....
5187	S. M. Hess & Co., Philadelphia, Pa.	Keystone Bone Phosphate	Glyndon.....
5159	W. H. Hood, Mt. Airy, Md.	Special Mixture for Grain and Grass.	Mt. Airy.....
5102	*Joshua Horner, Jr., & Co., Baltimore, Md.	Ammoniated Raw Bone Super-Phosphate.	Baltimore.....
5107	" " "	Dissolved Slaughter-House Bone Dust.	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5271	2.67	3	2.57	2	1.18	8.71	8	9.89	.....	$19.76	$16.00
5272	3.36	3½	4.79	4	1.13	8.05	8	9.18	.....	23.37	22.50
5198	1.85	1.40	2.37	2¼	2.70	7.49	7	10.19	8	16.49	13.85
5199	.....	¼	1.44	1½	1.61	8.73	8	10.34	9	8.42	8.65
5206	1.13	1	2.37	1½	1.66	8.08	7	9.74	8	14.50	11.90
5124	1.02	1	2.90	2	1.54	7.58	8	9.12	11	14.15	13.80
5186	.....	.....	.....	.....	1.72	13.39	14	15.11	15	10.71	11.20
5125	.49	¼	2.55	2	2.41	8.48	8	10.89	9	13.46	11.15
5260	2.52	2½	.....	.....	2.91	11.30	10	14.21	11	20.02	17.90
5209	1.61	1½	2.39	2½	2.65	10.36	10	13.01	11	18.92	17.60
5111	1.61	1½	1.98	1½	1.63	8.83	9	10.46	10	16.29	15.40
5104	2.26	2	....	... .	2.27	10.96	9	13.23	10	18.63	15.40
5188	.....	.....	.....	.....	1.53	13.74	14	15.27	15	10.99	11.20
5189	....	.....	.....	.....	1.95	8.87	9	10.82	10	7.09	7.20
5173	.....	.....	2.42	2	.83	9.96	8	10.79	9	10.56	8.60
5174	.....	.....	.....	.....	1.09	14.56	14	15.65	15	11.64	11.20
5175	.76	½	1.93	1½	1.56	8.08	7	9.64	8	10.98	8.80
5100	1.88	2	2.68	2½	1.81	10.15	10	11.96	.....	19.19	18.50
5108	1.05	1	2.18	2	2.15	9.65	9	11.80	.....	16.04	14.00
5187	1.20	2	2.20	2	1.97	9.49	9	11.46	11	16.07	17.80
5159	1.08	1	3.39	2	1.61	8.63	9	10.24	... .	15.90	14.00
5102	2.76	2½	2.78	2½	3.01	9.03	8	12.04	12	21.29	19.60
5107	2.83	2½	....	... .	4.58	10.62	12	15.20	14	20.94	20.30

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5123	Hubbard & Co., Baltimore, Md.	Bone Super-Phosphate..	Baltimore.....
5114	" " "	†Columbia Gem Phosphate.	Baltimore.....
5115	" " "	Crescent Soluble Crop Producer	Baltimore.....
5166	" " "	Dissolved Raw Bone.....	Mt. Airy.....
5252	" " "	H. G. Soluble S. C. Phosphate.....	Baltimore.....
5116	" " "	Oriental Phosphate for Wheat and Grass.	Baltimore.....
5184	" " "	Soluble Bone and Potash	Buck Lodge.....
5113	" " "	Wheat Growers' Jewel..	Baltimore.....
5127	*M. P. Hubbard & Co., Baltimore, Md.	Celebrated Dissolved Bone Phosphate	Baltimore.....
5253	" " "	Farmers' Old Economy..	Baltimore.....
5128	" " "	Harvest King for Wheat and Grass	Baltimore.....
5136	" " "	Linthicum's Special Mixture.	Ellicott City.....
5288	T. R. Hubbard & Son, Chestertown, Md.	Victor Phosphate.....	Chestertown.....
5214	C. M. Keedy, Keedysville, Md.	Money-Saving Phosphate	Keedysville.....
5142	Lazaretto Guano Co., Baltimore, Md.	Alkaline Phosphate for Wheat and Grass.	Ellicott City.....
5143	" " "	Ammoniated Bone Phosphate	Ellicott City.....
5144	" " "	Bone Comp'd for Wheat, Corn, Oats and Grass.	Ellicott City.....
5140	" " "	Crop Grower.	Ellicott City.....
5141	" " "	Forsythe & Linthicum's Mixture.	Ellicott City.....
5267	" " "	H. G. Dissolved Bone Phosphate and Potash	Baltimore.....
5135	" " "	Retriever Animal Bone Fertilizer.	Washington Grove.
5019	" " "	S. C. Bone Dissolved...	Sykesville.....
5212	Lester Agr'l Chemical Works, Newark, N. J. ..	Ammoniated Dissolved Bone Phosphate.	Chewsville.....

The "Ammonia guaranteed" in "Columbia Gem" in Quarterly No. 1, Aug. 1898, should have been ½ per cent. instead of 1½ per cent., Comparative Value Found, $11.52; Comp. Value Guaranteed, $10.80.

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5123	2.04	2	2.37	2	.95	11.30	9	12.25	10	$20.17	$17.40
5114	.87	½	2.08	1½	1.81	8.73	8	10.54	10	12.03	10.80
5115	.....	.....	.....	.....	2.33	10.04	10	12.37	11	8.03	8.00
5166	2.52	2¾	....	.....	2.90	10.08	11	12.98	13	18.80	20.05
5252	.....	.....	.....	.....	1.08	14.65	14	15.73	.....	11.72	11.20
5116	1.20	1	1.84	1½	2.17	9.86	8	12.03	10	16.16	13.30
5184	.....	.....	1.96	2	1.59	11.38	10	12.97	11	10.36	10.30
5113	1.73	1½	1.84	1½	1.34	12.24	10	13.58	11	19.80	16 40
5127	2.19	2½	1.36	2	1.22	10.92	9	12.14	10½	19.33	19.10
5253	1.09	½	1.61	1½	1.16	10.97	8	12.13	10	16.31	11.80
5128	1.56	1½	1.66	1½	1.41	11.09	9	12.50	10½	17.99	15.60
5136	0.72		1.69	1½	1.64	9.21	8	10.85	10	13.72	11.80
5288	1.41	1	3.03	3	1.28	9.17	8	10.45	8	16.94	14.00
5214	1.11	1½	3.59	3	.72	12.31	9	13.03	.....	19.51	16.50
5142	.....	.....	2.26	2	1.77	11.34	11	13.11	12	10.68	10.20
5143	1.08	1	2.57	2	1.59	9.64	9	11.23	10	16.08	14.40
5144	1.46	1¼	2.66	2½	2.02	10.26	10	12.28	11	18.10	16.30
5140	2.18	2	2.32	2	2.21	9.60	10	11.81	11	19.54	18.40
5141	2.53	2¼	4.01	4	3.72	10.62	9	14.34	13½	23.70	21.55
5267	.....	.....	3.13	2	1.35	12.31	12	13.56	13	13.16	11.80
5135	2.57	2¼	3.96	4	3.96	9.79	9	13.75	13½	23.04	21.55
5019	.....	.....	.....	.....	2.46	15.15	13	17.61	14	12.12	10.40
5212	5.32	2¼	2.18	1½	3.06	9.28	9	12.34	11	19.64	18.05

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5148	*Lister Agricultural Chem. Works, Newark, N. J.	Celebrated Ground Bone Acidulated.	Ellicott City.....
5293	" " "	Fertilizer for Tomatoes..	Chestertown.....
5211	" " "	Harvest Queen Phosphate.	Chewsville.. .....
5134	" " "	Special Crop Grower....	Washington Grove.
5213	" " "	Special Crop Producer..	Chewsville.....
5119	" " "	Special Fertilizer for Wheat.	Baltimore.....
5168	" " "	Standard Pure Bone Super-Phosphate.	Monrovia.....
5196	John A. Livers, Gettysburg, Pa.	Gold Dust.....	Westminster.....
5280	T. H. Longfellow, Greensboro', Md.	Farmers' Delight No. 1..	Greensboro'.....
5010	" " "	Farmers' Delight No. 1..	Greensboro'.....
5532	" " "	Weeat Grower.....	Greensboro'.....
5420	Maryland Fertz. Co., Baltimore, Md.	Dissolved S. C. Bone....	Linwood .....
5437	" " "	Globe Complete Manure Fertilizer.	Smithsburg.....
5453	" " "	Linden Super Phasphate	Hancock..... .....
5421	" " "	Pure Dissolved Animal Bone	Linwood.....
5258	Maryland Grange Agency, Baltimore, Md.	Patrons' Bone Mixture..	Baltimore.....
5275	Wm. McKenny, Centreville.	No. 1 D. Wheat Fertilizer	Hillsboro'..... ....
5277	" " "	Soluble No. 3 Phosphate.	Hillsboro'.....
5372	F. Mehring, Bruceville, Md.	Acid Phosphate....	Mt Airy.....
5374	" " "	Dissolved Raw Bone....	Mt. Airy.....
5387	" " "	Emmert's Half and Half.	Bunceville.....
5425	" " "	General Crop Grower....	York Roads.....
...	.....	.....	.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5212	2.32	2¼	2.18	1½	3.06	9.28	9	12.34	11	$19.64	$18.05
5148	4.23	3¼	.....	.....	6.71	6.63	12	13.34	.....	22.00	21.75
5293	2.32	2	2.44	2	2.71	8.13	8	10.84	.....	18.51	16.00
5211	1.84	1.80	2.16	2	2.10	9.94	9½	12.04	11½	18.46	17.70
5134	1.18	1	1.43	1	1.90	8.47	8	10.37	9.20	13.28	12.48
5213	1.17	1	0.97	1	3.57	6.85	7	10.42	8	12.75	11.40
5119	1.98	2	2.21	2	2.51	8.13	8	10.64	9.20	17.28	16.48
5168	2.88	2.85	1.85	1½	2.30	10.22	10	12.52	12	21.23	20 85
5196	1.37	1	2.13	1	2.00	10.75	9	12.75	10½	17.79	13.20
5280	1.17	1	2.11	1½	1.53	8.17	8	9.70	9	14.40	12.90
5010	1.33	1	1.96	1½	2.04	7.10	8	9.14	.....	13.87	12.50
5532	0.80	½	1.64	1	1 99	7.15	7	9.14	8	10.16	8.30
5420	.....	.....	.....	.....	2.30	13.12	14	15.42	14½	10.49	11.20
5437	2.11	2	1.66	1½	3.33	8.75	9	12.08	10	18.07	16.90
5453	.....	.....	1.93	2½	2.11	11.39	11	13.50	12	11.46	11.50
5421	3.51	2½	.....	.....	1.12	12.13	12	13.25	.....	23.11	19.50
5258	2.21	2	2.33	2½	7.44	7.09	5	14.53	15	19.02	17.50
5275	2.76	2	1.54	2¼	3.62	8.41	7	12.03	.....	19.67	15.25
5277	0.18	.30	1.14	3	0.43	15.33	12	15.76	.....	14.03	13.50
5372	.....	.....	.....	.....	3.41	15.22	14	18.63	.....	12.17	11.20
5374	2.16	1½	.....	.....	2.32	16.51	14	18.83	.....	23.91	18.50
5387	1.21	1	.....	.....	2.90	16.40	14	19.30	.....	21.19	17.00
5425	0.98	¾	1.57	1	4.00	11.68	10	15.68	.....	17.79	11.25

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5373	F. Mehring	$26.00 Phosphate	Mt. Airy
5021	*Miller Fertilizer Co., Baltimore, Md.	Buyer's Mixture	New Market
5312	" " "	Clinch Phosphate	Baltimore
5225	" " "	Corn and Oats Phosphate.	Aberdeen
5316	" " "	Dissolved Raw Bone	Baltimore
5323	" " "	†Harvest Queen Phosphate.	Baltimore
5381	" " "	Hustler Phosphate	Monrovia
5226	" " "	Special Tomato Grower.	Aberdeen
5313	" " "	Special Wheat Grower	Baltimore
5311	" " "	Standard Super-Phosphate of Lime.	Baltimore
5320	" " "	S. C. Rock	Baltimore
5314	" " "	W. G. Phosphate	Baltimore
5350	*H. C. Miller, Washington Grove, Md.	Export Bone, with Potash.	Washington Grove.
5430	G. W. Miller, Baltimore, Md.	Mixture	Loys
5429	" " "	Royal Wheat and Grass Mixture.	Loys
5324	Monumental Chem. Co., Baltimore, Md.	Arundel Complete	Baltimore
4918 ††	" " "	" "	Perrymanville
5352	" " "	Crop Grower	Washington Grove.
5351	" " "	Dissolved Animal Bone.	Washington Grove.
5354	" " "	Monumental Acid Phosphate.	Ellicott City
5497	Nickerson Fertilizer Co., Easton, Md.	Eastern Shore Domestic Guano.	Easton
5543	" " "	Mixture	Centreville
5018	" " "	Rock and Potash	Ridgely

†Note. In the August, 1898, Quarterly the "comparative value guaranteed" should have been $16.60 instead of $13.60.

††No. 4918 is republished to correct error in available phosphate acid and "comparative value found."

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5373	1.69	1¼	1.21	1¼	4.08	13.12	11½	17.20	.....	$21.02	$16.50
5021	1.67	1½	2.12	2	2.34	8.07	8	10.41	.....	16.14	14.50
5312	1.28	1	1.80	1½	1.41	7.59	7	9.00	9	13.79	12.30
5225	1.15	1	1.73	1½	1.50	6.87	7	8.37	9	12.65	12.30
5316	2.58	2½	.....	.....	4.43	9.52	11	13.95	14	19.03	18.50
5323	1.68	.....	2.53	.....	2.18	9.85	.....	12.03	.....	18.33	.....
5381	1.42	1	2.64	2¼	1.65	8.52	9	10.17	10	16.08	14.90
5226	2.20	2	2.55	2	1.27	8.24	8	9.51	10	17.89	16.80
5313	1.96	2	2.49	2	2.95	8.81	8	11.76	10	18.36	18.80
5311	3.00	2.85	2.47	2¼	2.15	10.51	10	12.66	11½	22.84	21.38
5320	....	.....	.....	.....	1.39	14.77	14	16.16	.....	11.81	11.20
5314	.75	½	1.18	1	3.72	6.79	7	10.51	9	10.96	10.30
5350	2.05	2	2.21	2	10.66	5.42	11½	16.18	.....	18.04	19.50
5430	2.01	2	3.19	2	4.02	6.55	5½	10.57	12	17.38	16.10
5429	1.29	1	2.28	2	2.45	8.41	9	10.86	10	15.54	14.40
5324	1.14	2	2.57	2	.95	7.67	8	8.62	9½	14.04	16.60
4918	1.72	2	1.75	2	1.29	9.00	8	10.29	9½	16.43	16.60
5352	1.01	1	1.12	1	1.21	8.24	8	9.45	9	12.87	12.40
5351	2.18	2	.....	.....	2.11	13.84	12	15.95	.....	21.22	18.00
5354	.....	.....	.....	.....	1.17	13.70	14	14.87	15	10.96	11.20
5497	1.88	2	3.62	3	3.20	9.36	9	12.56	10	19.90	18.40
5543	.70	.50	2.74	2	2.46	9.75	9	12.21	11	13.13	11.10
5018	.....	.....	4.50	5	1.08	12.52	12	13.60	.....	14.74	14.60

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5496	Nickerson Fertilizer Co...	S. C. Phosphate.....	Easton.....
5544	" " "	S. C. Phosphate and Potash.	Centreville.....
5479	G. Ober & Sons Co., Baltimore, Md.	Dissolved Animal Bone.	Baltimore.....
5362	" " "	Dis. Bone Phosphate....	Sykesville.....
5534	" " "	Dissolved Bone Phosphate and Potash.	Greensboro.....
5396	" " "	Farmer's Mixture.....	Germantown.....
5013	" " "	Farmer's Mixture.....	Charlotte Hall. ...
5517	Pacific Guano Co., New York.	Special Formula.....	Ridgely.....
5546	Patapsco Guano Co., Baltimore, Md.	Ammoniated Corn Fertilizer.	Centreville.....
5321	" " "	Baltimore Soluble Phosphate.	Baltimore.....
5424	" " "	Coon Brand Guano.....	Union Bridge.....
5400	" " "	Grain and Grass Producer.	Greenmount.....
5551	" " "	Grange Mixture.....	Chesapeake City....
5322	" " "	Pure Dissolved S. C. Bone.	Baltimore.....
5399	" " "	Sea Gull Ammoniated Guano.	Greenmount.....
5333	" " "	Special Wheat Compound.	Baltimore.....
5521	Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Caroline Mixture.....	Ridgely.....
5535	" " "	Dissolved Bone Phosphate. Potash Goods.	Greensboro.....
5510	" " "	Insula Guano for Corn, Oats and other Crops	Denton.....
5475	" " "	Piedmont Guano, for Wheat.	Baltimore.....
5527	" " "	Piedmont Royal Ammoniated Bone and Pt'h	Ridgely.....
5522	" " "	Pure Raw Bone Mixture.	Ridgely.....
5250	R. H. Pollock, Balto., Md.	Ammoniated Bone Phosphate.	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5496	.....	.....	.....	.....	1.35	14.20	14	15.55	16	$11.36	$11.20
5544	.....	.....	2.34	2	1.10	10.79	11	11.89	13	11.19	11.20
5479	3.53	2½	.....	.....	2.47	12.18	10	14.65	12	23.76	18.30
5362	.....	.....	.....	.....	1.24	16.14	14	17.38	16½	12.91	11.20
5534	.....	.....	2.14	2	.46	13.05	11	13.51	13	12.67	11.20
5396	1.66	1	3.43	2	.64	10.94	9	11.58	11	19.71	14.40
5013	1.68	1	2.02	2	3.03	9.28	9	12.31	.....	17.55	14.00
5517	2.82	2	2.47	3	3.00	10.09	8	13.09	....	22.22	17.00
5546	1.55	1½	2.57	2	2.06	9.35	8	11.41	10	17.39	15.30
5321	....	.....	1.70	2	1.08	12.61	11	13.69	12	11.99	11.00
5124	1.23	1	3.26	3	2.29	9.16	9	11.45	10	17.03	15.40
5400	1.54	1¼	2.57	2	1.80	9.64	10	11.44	12	17.55	16.55
5551	2.01	2	2.42	2	2.18	10.16	10	12.34	12½	19.48	19.00
5322	....	.....	.....	.....	1.93	15.15	14	17.08	15	12.12	11.20
5399	1.07	1	1.32	1	1.82	8.78	8	10.59	9	14.03	12.40
5333	2.36	2¼	2.78	2⅓	4.60	9.97	9	14.57	14	21.67	20.25
5521	1.20	1	1.29	2	3.24	8.45	8	11.69	9	14.63	13.40
5535	.....	.....	1.26	1	1.23	11.85	10½	13.08	11½	10.99	9.60
5510	.45	½	1.30	2	.87	8.10	5	8.97	7	9.30	7.90
5475	1.94	2	1.10	1	1.38	9.71	8	11.09	10	17.18	15.80
5527	1.48	1.30	3.34	3	3.14	6.03	6	9.17	8	15.06	13.70
5522	1.08	1	1.01	1	1.96	7.76	7	9.72	11	12.79	12.60
5250	2.11	2	1.96	2	1.98	10.43	10	12.41	11	19.51	18.40

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5249	R. H. Pollock, Balto., Md.	Dissolved Animal Bone.	Baltimore.....
5335	" " " "	Dissolved S. C. Bone...	Baltimore.....
5005	" " " "	Dissolved S. C. Bone...	Denton.....
5336	" " " "	Special Wheat Grower.	Baltimore.....
5334	" " " "	Victor Bone Phosphate..	Baltimore.....
5380	Ramsburg Fertilizer Co., Frederick, Md.	Alkaline Phospho Potassium.	Monrovia.....
5390	" " " "	Dissolved Animal Bone.	Walkersville.. .....
5395	" " " "	Dissolved Animal Bone.	Boyd's.....
5375	" " " "	Dissolved Bone Super Phosphate.	Mt. Airy.....
5379	" " " "	Excelsior Half-and-Half.	Monrovia .....
5371	" " " "	Excelsior Plant Food....	Mt. Airy..... ...
5450	" " " "	Mixture for Wheat.....	Hancock.....
5378	" " " "	Old Virginia Compound.	Monrovia .....
5408	Rasin Fertilizer Co., Baltimore, Md.	Acid Phosphate.....	Fowblesburg.....
5406	" " "	Ammoniated Super-Phosphate.	Fowblesburg.....
5407	" " "	Bone and Potash Fertilizer.	Fowblesburg.....
5391	" " "	Dissolved Bone.....	Gaithersburg.....
5000	" " "	Ground Tankage	Reliance..... ...
5480	" " "	I X L Fertilizer.....	Baltimore.....
5536	" " "	Truck Guano.....	Centreville.....
5331	Henry Reckord Mfg. Co, Belair, Md.	Dissolved S. C. Bone ...	Baltimore.....
5466	" " "	H. G. Dissolved Blood, Bone and Potash.	Belair.....
5329	" " "	Special Compound	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5249	2.68	2½	.....	.....	4.57	12.16	12	16.73	.....	$22.02	$19.50
5385	.....	.....	.....	.....	3.20	14.75	14	17.95	16	11.80	11.20
5005	.....	.....	.....	.....	2.05	14.68	14	16.73	.....	11.76	11.20
5336	1.09	1	2.23	2	1.80	9.93	9	11.73	10	16.15	15.00
5334	.....	.....	1.03	1	1.30	9.76	9	11.06	10	8.83	8.20
5380	.86	1¼	1.17	4	2.75	12.61	10	15.36	.....	17.46	17.75
5390	2.61	2½	1.67	1½	2.40	9.79	10	12.19	13	20.25	20.20
5395	2.26	2	.....	.....	7.52	9.36	10	16.88	13	19.15	17.20
5375	.....	.....	.....	.....	1.24	16.08	14	17.32	16	12.86	11.20
5379	1.30	1	1.37	1	3.35	10.08	10	13.43	12	16.69	14.80
5371	2.51	2	1.04	1	1.67	13.75	9	15.42	11	22.98	15.80
5450	.....	.....	1.85	2	1.81	10.02	10	11.83	12	10.43	10.40
5378	1.42	1½	1.54	2.10	3.02	10.44	9	13.46	11.20	17.44	16.48
5408	.....	.....	.....	.....	.48	16.30	14	16.78	15	13.04	11.20
5406	1.15	1	1.31	1	1.65	10.56	8	12.21	9	15.98	12.40
5407	.....	.....	1.13	1¼	2.02	12.05	12	14.07	13	11.17	11.05
5391	2.48	2	.....	.....	2.30	8.93	10	11.23	12	17.29	16.80
5000	9.89	10	.....	.....	.....	.....	.....	.98	.....	24.36	24.00
5480	2.05	1¼	2.46	3	1.62	9.61	9	11.23	.....	18.87	15.75
5536	3.03	4	1.98	2	2.89	8.51	7	11.40	8	20.73	21.40
5331	.....	.....	.....	.....	2.73	13.50	14	16.23	.....	10.80	11.20
5466	4.26	5	5.00	5	4.41	7.65	7	12.06	8	27.49	27.40
5329	2.19	2.03	2.39	2.13	2.37	9.45	10.66	11.82	13.18	19.35	19.49

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5339	Reindollar & Co, Taneytown, Md.	Fish Phosphate	Baltimore
5338	" "	Special Mixture	Baltimore
5422	W. G. Rinehart & Co., Union Bridge, Md.	No. 2 Bone Phosphate	Union Bridge
5423	" "	No. 3 Bone Phosphate	Union Bridge
5414	*Isaac Robinson, Baltimore, Md.	Fish, Rock and Potash	Fowblesburg
5319	" "	H. G. Soluble Phosphate	Baltimore
5415	" "	Pennsylvania Special	Fowblesburg
5002	" "	Potashed Bone	Chestertown
5476	" "	Pure Dissolved Bone	Baltimore
4993	" "	Rock and Potash	Blacks
5552	" "	Special Potato and Tomato Phosphate.	Chesapeake City
5478	" "	Special Wheat and Grass Phosphate.	Baltimore
5401	" "	Standard Bone Phosphate.	Hampstead
5004	E. C. Ross, Seaford, Del.	Acid Phosphate or S. C. Rock.	Reliance
5411	Charles Schaeffer, Westminster, Md.	Big Gun	Fowblesburg
5332	" "	Governor	Baltimore
5412	" "	Governor	Fowblesburg
5413	" "	H. G. Acid Phosphate or Dissolved S. C. Rock.	Fowblesburg
5410	" "	Leader	Fowblesburg
5409	" "	Pride	Fowblesburg
5419	" "	Super "A"	Westminster
5455	*Scott Fertilizer Co., Elkton, Md.	Elk Head Phosphate	Rising Sun
5463	" "	Pure Dissolved Bone	Elkton

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5339	2.03	2	2.52	2	1.08	9.70	8	10.78	.....	$18.74	$16.00
5338	1.59	1	1.37	1	1.33	6.73	7	8.06	.....	13.20	11.00
5422	.92	1.55	2.35	2½	1.36	9.05	8.27	10.41	11	14.70	15.42
5423	.87	¾	2.95	3.21	1.33	8.67	8.09	10.00	10	12.77	11.93
5414	.47	¼	.81	½	4 31	5.83	5	10.14	.....	7.74	5.25
5319	.....	.....	.....	.....	1.56	15.21	14	16.77	.....	12.16	11.20
5415	2.00	2	4.20	5	2.46	8.45	7	10.91	.....	19.63	18.60
5002	.....	.....	2.41	2	2.27	10.12	10	12.39	12	10.94	10.40
5476	2.64	2½	.....	.....	2.22	11.10	11	13.32	14	19.91	19.70
4998	.....	.....	4.28	5	.83	8.91	11	9.74	.....	11.56	.....
5552	2.30	2	2.49	2¼	2.60	7.43	7½	10.03	10	17.86	16.75
5478	2.49	2	2.53	2	1.38	7.54	8	9.92	11	18.09	16.80
5401	1.15	1	2.28	2	1.97	10.07	10	12.04	11½	16.59	15.60
5004	.....	.....	.....	.....	.36	15.63	15	15.99	.....	12.50	12.00
5411	2.03	2	2.08	2	2.83	11.54	10	14.37	.....	20.84	18.00
5332	1.72	1½	2.59	2½	1.90	9.67	9	11.57	.....	18.18	16.00
5412	1.68	1½	2.42	2½	1.63	10.30	9	11.93	.....	18.41	16.00
5413	.....	.....	.....	.....	1.87	13.81	14	15.68	.....	11.05	11.20
5410	1.25	1	1.92	1½	2.38	8.11	8	10.49	.....	14.73	12.50
5409	2.63	2½	1.82	2	2.52	12.49	11	15.01	13	23.21	21.30
5419	.92	¾	1.51	1	1.21	8.23	7½	9.44	8½	12.98	9.45
5455	1.53	1	1.38	1	1.48	9.70	8	11.18	10	16.26	12.80
5463	3.25	2½	....	.....	1.64	14.46	13	16.10	15	24.87	21.20

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5457	Scott Fertilizer Co., Elkton, Md.	Sure Growth Super-Phosphate.	Rising Sun.....
5458	" " "	Sure Growth Super-Phosphate.	Elkton... .....
5462	" " "	Standard Phosphate....	Elkton.....
5459	" " "	Tip-Top Soluble Bone..	Elkton.....
5464	" " "	Tip-Top Soluble Bone..	Elkton.....
5456	" " "	Tip-Top Soluble Bone and Potash.	Rising Sun.....
5461	" " "	Tip-Top Soluble Bone and Potash.	Elkton.....
5389	D. A. Sharretts, York Roads, Md.	Ammoniated Super-Phosphate.	Woodsboro.....
5388	" " "	Bone Phosphate.....	Bruceville... .....
5445	J. D. Simmons, Hagerstown, Md.	Wheat and Clover Producer.	Hagerstown.....
5359	*Slingluff & Co., Baltimore, Md.	Ammoniated Bone.....	Ellicott City.....
5416	" " "	Baltimore Dissol'd Bone.	New Windsor .....
5426	" " "	Bone and Potash.....	Emmittsburg.....
5357	" " "	British Mixture.....	Ellicott City.....
5449	" " "	Dissolved S. C. Bone....	Hancock.....
5358	" " "	Half and Half.....	Ellicott City.....
5328	" " "	Pure Raw Bone Dissole'd	Baltimore.....
5427	" " "	Soluble Super-Phosph'te	Emmittsburg.....
5341	" " "	Special Bone Phosphate.	Baltimore.....
5367	*Southern Fertilizer Co., York, Pa.	Ammoniated Dissolved Bone.	Woodbine.....
5310	" " " "	Dissolved Bone Phosphate.	Baltimore.....
5348	" " " "	Dissolved Raw Bone....	Derwood.....
5347	" " " "	Export Bone with Potash.	Derwood.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5457	2.56	2	2.26	2	2.22	9.81	10	12.03	12	$20.64	$18 80
5408	2.05	2	2.16	2	2.25	10.54	10	12.79	12	19.71	18.80
5462	1.89	1½	2.21	2	2.06	8.13	8	10.19	.....	16.83	14.50
5459	.....	.....	.....	.....	.75	20.62	14	21.37	.....	16.49	11.20
5464	.....	.....	.....	.....	1.28	17.51	14	18.79	.....	14.01	11.20
5456	.....	.....	1.80	2	2.41	14 08	11	16.49	.....	13.54	10.80
5461	.....	.....	2.52	2	2.74	11.92	11	14.66	.....	12.60	10.80
5389	1.44	1	1.75	1	1.41	9.58	9	10.99	.....	16.21	13.00
5388	2.01	2	2.50	1½	1.92	8.89	8	10.81	.....	18.18	15.50
5445	2.31	2	6.55	6	5.25	9.31	11	14.56	16	24.89	25.00
5359	2.53	2½	2.27	2½	4.26	9.83	9	14.09	.....	21.39	19.00
5416	1.14	1	1.36	1	1.79	11.87	10	13.66	.....	17.37	14.00
5426	.....	.....	1.58	2	2.40	11.56	10	13.96	11	11.31	10.20
5357	2.53	2½	2.61	2½	3.72	12.00	8	15.72	.....	23.68	18.00
5449	.....	.....	.....	.....	.55	15.06	14	15.61	.....	12.05	11.20
5358	2.38	1⅞	.....	.....	6.18	11.73	8	17.91	19	21.34	13.25
5328	2.83	2½	.....	.....	3 22	13.39	10	16.61	13	23.16	18.70
5427	.....	.....	.....	.....	.49	14.81	14	15.30	16	11.85	11.20
5341	1.18	1	.....	.....	1.42	14.87	12	16.29	13	18.97	15.40
5367	2.23	2	2.47	2½	2.02	9.89	10	11.91	.....	19.85	18.50
5310	.....	.....	.....	.....	1.70	14.00	14	15.70	.....	11.20	11.20
5348	2.64	2½	....	.....	4.36	12.13	12	16.49	.....	21.79	19.50
5347	1.92	2	2.30	2	10.80	6.50	.....	17.30	.....	18.88	19.50

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5376	*Southern Fertilizer Co., York, Pa.	Farmers' Choice Brand.	Mt. Airy.....
5355	" " "	Soluble Bone and Potash	Ellicott City.....
5435	G. W. Stocksdale, Thurmont, Md.	Ammoniated Super-Phosphate.	Thurmont.....
5436	" " "	Dissolved Animal Bone Phosphate.	Thurmont.....
5444	*J. W. Stonebraker, Hagerstown, Md.	Dissolved Bone Phosphate.	Hagerstown.....
5443	" " "	Special Mixture.....	Hagerstown.....
5418	J. A. Stouffer, New Windsor, Md.	Butcher House Phosph'te	New Windsor.....
5417	" " " "	Soluble Wheat Grower	New Windsor.....
5340	*W. H. Street & Co., Baltimore, Md	Ammoniated Dissolved Bone.	Baltimore.....
5474	" " "	S. C. Rock.....	Baltimore.....
5405	Susquehanna Fertz. Co., Baltimore, Md.	Ammoniated Bone Phosphate.	Arcadia.....
5549	" " "	Crop Grower.....	Chestertown.....
5433	" " "	Pure Dissolved Bone....	Graceham. .. . ...
5448	" " "	Soluble Bone Phosphate.	Hancock.....
5548	" " "	Soluble Bone and Potash.	Chestertown.....
5364	" " "	Superior Rock Phosphate	Gaither's .....
5434	" " "	XXV Phosphate.....	Graceham.....
5356	Talbott & Clark, Ellicott City, Md.	Ammoniated Bone Phosphate.	Ellicott City.....
5439	D A. Thomas, Hagerstown, Md.	Bone Mixture.....	Hagerstown.....
5438	" " "	Dissolved Bone.....	Hagerstown.....
5003	" " "	Dissolved Bone.....	Hagerstown .....
5440	" " "	Farmer's Mixture.....	Hagerstown .....
5442	" " "	Pure Dissol'd S. C. Bone.	Hagerstown .....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5376	1.23	1	1.98	2	2.61	9.80	9	12.41	.....	$16.41	$14.00
5355	.. ..	.....	2.02	2	1.49	12.61	11	14.10	.....	12.10	10.80
5435	.94	1	2.25	2¼	1.55	9.57	9	11.12	9	15.26	14.25
5436	1.33	1¼	2.51	2¼	1.47	8.80	8	10.27	.....	15.88	14.00
5444	2.08	2	2.63	2¼	1.68	9.93	10	11.61	.....	19.47	18.25
5443	2.55	2¼	4.10	4	3.99	11.86	9	15.85	13½	25.20	21.55
5418	1.32	¾	3.85	2½	2.61	9.06	8	11.67	9	17.91	11.35
5417	.71	¼	2.72	2½	1.53	9.69	7½	11.22	9½	12.91	9.65
5340	1.68	1½	2.39	2	2.20	9.75	9	11.95	10	18.10	15.90
5474	.....	.....	....	.....	1.26	14.42	14	15.68	15½	11.54	11.20
5405	2.68	2	2.29	2	2.46	9.02	9	11.48	11	20.33	17.80
5549	1.43	1	1.42	1	2.20	9.25	8	11.45	10	15.84	12.80
5433	2.53	2	.....	.....	4.87	11.29	15	16.16	15	20.83	21.00
5448	.....	.....	.....	.....	1.46	14.45	14	15.91	15	11.56	11.20
5548	.....	.....	2.03	2	2.18	11.90	10	13.08	12	11.98	11.40
5364	.....	....	.....	.....	1.32	15.54	14	16.86	15	12.43	11.20
5434	1.89	1½	1.65	1	2.19	11.02	8	13.21	10	19.21	14.30
5356	1.89	2	3.68	4	.87	10.30	9	11.17	.....	20.00	19.00
5439	2.27	2	2.14	2	2.39	9.51	10	11.90	.....	19.41	18.00
5438	3.58	3	.....	.....	5.16	13.42	11	18.58	15	26.22	21.60
5003	2.55	2½	4.37	4	3.89	10.34	10	14.23	14	23.92	22.10
5440	1.74	1½	1.65	1½	3.14	8.12	8	11.26	.....	16.25	14 00
5442	....	.....	.....	....	1.80	15.17	14	16.97	.....	12.14	11.20

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
4994	*D. A. Thomas, Hagerstown, Md.	S. C. Bone	Reid
5451	I. P. Thomas & Sons Co., Philadelphia, Pa.	S. C. Phosphate	Hancock
5499	W. B. Tilghman Co., Salisbury, Md.	Bee Mixture	Salisbury
5498	" " "	Fish Mixture	Salisbury
5500	E. S. Truitt, Salisbury, Md.	Fish Mixture (XX)	Salisbury
5550	Turner & Son, Betterton. Md.	Bone Phosp'te for Wheat and Grass.	Betterton
5488	*Tygert-Allen Mfg. Co., Philadelphia, Pa.	Alkaline Bone Phosphate	Pocomoke
5490	" " "	Ammoniated Bone Phosphate.	Pocomoke
5491	" " "	Beverly's Mixture	Snow Hill
5489	" " "	Dissolved S. C. Rock	Pocomoke
5487	" " "	German Kainit	Pocomoke
5486	" " "	Star Soluble Bone and Potash	Pocomoke
5492	" " "	Standard Bone Phosp'te.	Snow Hill
5377	J. Tyson & Son, Frederick, Md.	Ammoniated Super-Phosphate of Lime.	Monrovia
5392	" " "	Ammoniated Super-Phosphate of Lime.	Dickerson
5382	" " "	Dissolved S. C	Frederick
5393	" " "	Half and Half Super Phosphate.	Dickerson
5394	" " "	Special Mixture	Dickerson.
5370	Virginia-Carolina Chem. Co., Richmond, Va.	Ammmoniated Bone Phosphate.	Mt. Airy
5369	" " "	Dissolved Bones	Mt. Airy
5397	" " "	Guaranteed 14% Acid Phosphate.	Germantown
5006	" " "	S. C. Rock	Adamstown
5506	S. L. Webster & Son, Cambridge, Md.	Acidulated Bone	Cambridge

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
4994	....	.....	....	.....	2.10	14.27	14	16.37	.....	11.42	11.20
5451	....	.....	....	.....	.77	16.33	14	17.10	.16	13.06	11.20
5499	3.64	4	4.47	3	2.32	7.28	8	9.60	.....	23.59	23.00
5498	3.57	3	2.47	2	1.96	7.41	7	9.37	.....	21.37	18.00
5500	3.65	3	2.08	2	3.29	6.55	8	9.84	10	20.90	19.80
5550	1.85	1.75	2.52	2½	1.96	13.99	12	15.95	.....	22.84	19.75
5488	....	.....	1.85	2	1.54	9.45	10	10.99	11½	9.72	10.30
5490	1.28	1¼	1.14	1¼	2.37	7.69	8	10.06	9	13.62	13.40
5491	1.85	2	1.32	1¼	5.79	7.09	6¼	12.88	12¼	16.28	16.30
5489	....	.....	....	.....	1.00	15.18	14	16.18	15	12.14	11.20
5487	....	.....	12.39	11½	....	....	.....	....	.....	.....	.....
5486	....	.....	1.93	2	1.52	9.47	10	10.99	11½	9.81	10.30
5492	1.97	2	1.87	2	2.41	7.67	8	10.08	10	16.41	16.80
5377	1.42	2	1.72	1	3.30	10.67	7	13.97	.....	17.97	14.00
5392	1.62	2	1.88	1	3.38	10.08	7	13.46	.....	18.17	14.00
5382	....	.....	....	.....	1.22	15.29	14	16.51	.....	12.23	11.20
5393	.75	½	.10	1	1.38	12.46	8	13.84	.....	12.48	8.90
5394	.95	1	1.02	1	2.65	9.14	8	11.79	.....	14.07	12.00
5370	.88	½	.94	1	2.58	7.91	8	10.49	.....	10.42	8.90
5369	2.00	2	....	.....	2.78	10.12	10	12.90	12	17.23	16.00
5397	....	.....	....	....	.59	14.78	14	15.37	15	11.82	11.20
5006	....	.....	....	.....	1.35	14.01	14	15.36	15	11.21	11.20
5506	....	.....	....	.....	1.35	14.62	11.90	15.97	15	11.70	9.52

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5508	S. L. Webster & Son, Cambridge, Md.	No. 1 Ammoniated Bone Phosphate.	Cambridge.....
5504	" " "	No. 2 Ammoniated Bone Phosphate.	Cambridge.....
5505	" " "	Poudrett Mixture.....	Cambridge.....
5502	" " "	Rock and Potash.....	Cambridge.....
5503	" " "	Times Brand Phosphate	Cambridge. .....
5365	M. E. Wheeler & Co, New York.	H. G. Electrical Dissolved Bone Fertz.	Woodbine.....
5366	" " "	H. G. Royal Wheat Grower.	Woodbine.....
5513	*Williams & Clark, New York.	Acorn Brand Acid Phosphate.	Ridgely.....
5511	" " "	Dewey Special Formula	Ridgely.....
5530	" " "	Dissolved Bone Phosphate.	Greensboro.....
5516	" " "	Dried Blood.....	Ridgely.....
5514	" " "	Ground Tankage.....	Ridgely.....
5531	" " "	Pea, Tomato and Corn Phosphate.	Greensboro..... ..
5020	" " "	Rock and Potash.....	Ridgely .....
5547	" " "	Special Formula No. 6..	Queenstown .....
5483	F. M. Wilson, Pocomoke, Md.	Favorite Truck Fertilizer	Pocomoke.....
5344	Robt. A. Wooldridge, Baltimore, Md.	Buffalo Bone Stock Phosphate.	Baltimore.....
5342	" " "	Chieftain Bone Stock Phosphate.	Baltimore .....
5353	" " "	Chieftain Bone Stock Phosphate.	Ellicott City.....
5343	" " "	Acid Phosphate.....	Baltimore.....
5337	" " "	Liberty Bell Potash Mixture.	Baltimore.....
5398	" " "	Little Giant Phosphate..	Germantown.....
5473	" " "	Triumph Pure Bone Phosphate.	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5508	3.56	3½	3.37	4.62	5 51	5.79	9.48	11.30	11.88	$22.04	$25.56
5504	2.15	2.40	2.62	2	3.76	6.71	8	10.47	.....	17.28	17.20
5505	.60	.51	2.12	3	1.48	5.66	6½	7.14	7.28	8.74	9.95
5502	.. ..	.....	2.98	3	1.37	10.53	12	11.80	12 65	11.67	12.73
5503	.54	½	2.19	2½	1.26	7.74	9	9.00	.....	10.25	11.20
5365	.....	.....	.....	.....	2.50	14.78	14	17.28	16	11.80	11.20
5366	1.10	1	2.08	2	2.56	9.09	8	11.65	9	15.49	13.40
5513	.....	.....	.....	.....	1.45	16.05	14	17.50	15	12.84	11.20
5511	2.15	2	3.71	4	2.89	10.26	10	13.15	.....	21.58	20.00
5530	1.18	1¼	1.94	2	2.04	7.30	7	9.34	8	13.59	13.15
5516	10.82	12	.....	.....	.....	.....	.....	.....	.....	26.01	28.80
5514	10.22	10	.....	.....	.....	.....	.....	7.61	.....	29.08	24.00
5531	1.05	½	3.21	3	1.08	9.48	8	10.56	.....	16.27	10.90
5020	.....	.....	4.16	5	1.52	13.03	12	14.55	.....	14.88	14.60
5547	1.53	1¼	3.31	3.70	4.59	9.63	10	14.22	.....	19.37	17.45
5483	3.26	3	5.39	4	2.45	6.16	8	8.61	.....	22.31	21.00
5344	2.89	2½	.....	.....	2.55	10.31	10	12.86	11	20.00	17.90
5342	2.14	2	2.05	2	2.37	9.05	9	11.42	10	18.46	17.40
5353	2.02	2	1.71	½	2.43	8.00	9	10.43	10	16.74	15.90
5343	.....	.....	.....	.....	2.37	14.71	14	17.08	15	11.76	11.20
5337	....	.....	1.88	2	.73	12.12	11	12.85	12	11.57	10.80
5398	1.12	1	2.21	2	1.20	9.98	9	11.18	10	16.03	14.40
5473	1.59	1½	4.22	4	1.44	9.35	8	10.79	9	18.92	16.90

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5327	Zell Guano Co., Baltimore, Md.	Ammoniated Bone Super-Phosphate	Baltimore
5428	" " "	Dissolved Bone Phosphate	Emmitsburg
5431	" " "	Dissolved Bone Phosphate and Potash	Loys
5404	" " "	Economizer	Arcadia
5432	" " "	Little Giant, a complete Fertilizer	Loys

No.	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.					Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble Found.	Available.		Total.			
	Found.	Guaranteed.	Found.	Guaranteed.		Found.	Guaranteed.	Found.	Guaranteed.		
5327	2.06	2	2.35	2	1.50	9.30	8	10.80	10	$18.43	$16.80
5428	.....	.....	.....	.....	1.10	14.71	14	15.81	16	11.76	11.20
5431	.....	.....	1.41	1	.89	13.60	12	14.49	12	12.47	11.00
5404	1.24	1	1.17	1	1.51	10.92	9	12.43	11	16.41	13.80
5432	1.38	1	1.22	1	1.33	10.12	8	11.45	10	16.01	12.80

No.	Name and Address of Manufacturer.	Name of Fertilizers.	Place of Sampling.
5218	Alexandria Fert. & Chem. Co., Alexandria, Va.	Pure Raw Bone Meal	Hancock.....
5150	The Armour Fertilizer Works, Chicago, Ill.	Bone Meal.....	Ellicott City .....
5118	Balto. Seed & Implement Co , Baltimore, Md.	Soft Ground Bone	Baltimore.....
5106	Baugh & Sons Co., Baltimore, Md.	Bone Meal, Warranted Pure.	Baltimore.....
5109	Baugh & Sons Co., Baltimore, Md.	Bone Meal.....	Laurel .....
5223	Chas. E. Bond.....	Pure Ground Bone.....	Spencerville .....
5204	Chemical Co. of Canton, Baltimore, Md.	Baker's Standard Ground Bone.	Linwood.....
5230	Josiah Cope & Co., Lincoln University, Pa.	Pure Steamed Bone.....	Rising Sun.....
5269	Detrick Fertilizer & Chem. Co., Baltimore, Md	Pure, Fine Ground Animal Bone.	Pocomoke.....
5112	Griffith, Turner & Co., Baltimore, Md.	Soft Ground Bone.....	Baltimore.....
5240	Hanover Bone Fertz. Co., Ltd., Hanover, Pa.	Pure Bone Meal.....	Bel Air .....
5101	Joshua Horner, Jr., & Co., Baltimore, Md.	Slaughter House Bone Dust.	Baltimore .. ..
5126	M. P. Hubbard & Co., Baltimore, Md.	Bone Meal, Warranted Pure.	Baltimore.....
5139	Lazaretto Guano Co., Baltimore, Md.	Harford Bone.....	Ellicott City.....
5137	Lazaretto Guano Co., Baltimore, Md.	Pure Ground Animal Bone.	Ellicott City.....
5221	Lister Agr'l Chem. Works. Newark, N. J	Pure Raw Bone Meal.....	Cumberland .....
5262	Lister Agr'l Chem. Works, Newark, N. J.	Pure Raw Bone Meal.....	Baltimore.....
5210	Joseph Lister, Chicago, Ill.	Pure Bone Meal.....	Chewsville .....
5317	Miller Fertilizer Co., Baltimore, Md.	Ground Bone	Baltimore.....
5012	Miller Fertilizer Co., Baltimore, Md.	Ground Bone	Fairland .....
5349	H. C. Miller, Washington Grove, Md.	Pure Ground Bone.....	Washington Grove.
4999	Rasin Fertilizer Co., Baltimore, Md.	Raw Bone Meal.....	Reliance .....
5467	Henry Reckord Mfg. Co., Bel Air, Md.	Fine Ground Bone.....	Bel Air.....

No.	Mechanical Analysis.				Nitrogen. Calculated as Ammonia.		Total Phosphoric Acid.		Comparative Value Found.
	Fine.	Fine Medium.	Medium.	Coarse.	**Found.**	Guaranteed.	**Found.**	Guaranteed.	
5218	35	28	37	0	**5.16**	4	**24.17**	21½	$31.48
5150	51	24	18	7	**4.31**	3	**24.33**	24	30.95
5118	67	18	15	0	**3.63**	3	**14.52**	11	22.46
5106	44	56	0	0	**4.74**	4	**23.48**	21½	33.08
5109	55	27	18	0	**2.52**	3	**27.20**	22½	30 16
5223	37	31	27	5	**4.89**	4½	**21.88**	20	32 00
5204	56	21	23	0	**4.25**	4	**19.90**	20	27.96
5230	57	22	16	5	**2.56**	2	**26.65**	24	29.33
5269	55	25	20	0	**2.71**	2½	**26.36**	22½	29.78
5112	62	17	15	6	**4.08**	3	**14.06**	11	22.52
5240	37	33	30	0	**4.03**	4	**18.91**	23	25.16
5101	43	31	26	0	**6.62**	6	**20.62**	20	33.49
5126	43	26	20	11	**5.43**	4	**20.60**	21½	29.45
5139	47	21	21	11	**3.12**	3	**18.56**	16	22.47
5137	20	23	32	25	**5.27**	4½	**22.30**	21½	26.65
5221	40	31	24	5	**3.41**	3¼	**23.60**	23	27.25
5262	38	34	23	5	**3.53**	3⅜	**24.52**	23	28.37
5210	57	26	17	0	**4.07**	4.68	**24.49**	25.60	31.76
5317	60	20	20	0	**4.34**	4	**13.97**	13½	23.24
5012	45	29	26	0	**4.55**	4	**14.86**	13½	23.71
5349	35	32	18	15	**4.09**	4	**20.19**	18	25.19
4999	38	27	29	6	**4.34**	4	**20.64**	20	26.78
5467	54	26	20	0	**3.95**	3	**25.36**	25	32.08

No.	Name and Addres of Manufacturer.	Name of Fertilizer.	Place of Sampling.
5011	Henry Reckord Mfg. Co., Belair, Md.	Raw Bone	Churchville
5465	" " "	Raw Bone	Belair
5345	Isaac Robinson, Baltimore, Md	Pure Raw Bone	Baltimore
5460	Scott Fertilizer Co., Elkton, Md	Pure Ground Bone	Elkton
5361	Slingluff & Co., Baltimore, Md.	Bone	Ellicott City
5315	Southern Fertilizer Co., York, Pa.	Fine Raw Bone	Baltimore
5468	" "	Pure Ground Bone	Belair
5446	J. W. Stonebraker & Son, Hagerstown Md.	Bone Meal	Hagerstown
5346	R. D. Jenney, Georgetown, D. C.	Pure Ground Bone Dust	Silver Spring
5441	D. A. Thomas, Hagerstown, Md.	Fine Raw Bone	Hagerstown
5493	Tygert-Allen Fertz. Co. Philadelphia, Pa.	Prairie Bone Meal	Snow Hill
5485	" " "	*Pure Ground Bone	Pocomoke
5482	Walker, Stratman & Co., Pittsburg, Pa	Pure Raw Bone Meal	Westover
5515	Williams & Clark, New York.	Americus Brand Pure Bone Meal	Ridgely
5447	Taylor Provision Co., Trenton. N. J.	Pure Bone Meal	Keedysville
5477	W. H. Street & Co., Baltimore, Md.	Ground Bone	Baltimore

No.	Mechanical Analysis.				Nitrogen Calculated as Ammonia.		Total Phosphoric Acid.		Comparative Value Found.
	Fine.	Fine Medium.	Medium.	Coarse.	**Found.**	Guaranteed.	**Found.**	Guaranteed.	
5011	30	32	33	5	**4.49**	5.29	**20.68**	20.38	**$26.59**
5465	31	26	34	9	**5.26**	5.29	**22.35**	20.38	**28.99**
5345	30	44	19	7	**4.03**	4	**24.63**	23	**32.70**
5460	21	22	47	10	**4.89**	4	**24.27**	22	**27.92**
5361	27	28	45	0	**4.74**	....	**22.11**	.....	**27.85**
5315	43	32	16	9	**4.27**	4½	**19.47**	20½	**26.35**
5468	59	18	14	9	**3.16**	4	**19.24**	19	**24.39**
5446	54	21	25	0	**4.91**	4½	**19.26**	21	**28.81**
5346	17	43	30	10	**4.68**	4	**19.78**	18	**25.08**
5441	45	36	19	0	**4.61**	4	**22.91**	20½	**30.97**
5493	74	16	10	0	**3.02**	3	**17.24**	13	**23.92**
5485	63	22	15	0	**4.03**	4	**21.25**	22	**29 39**
5482	43	27	30	0	**4.60**	4	**23.00**	22	**30.23**
5515	54	23	23	0	**4.40**	3	**22.26**	20	**30.25**
5447	56	25	19	0	**3.63**	4	**24.80**	25	**30.75**
5477	56	22	22	0	**4.25**	4	**13.30**	13½	**22.27**

SUPPLEMENTARY LIST OF FERTILIZERS LICENSED FOR SALE IN MARYLAND, FOR THE YEAR ENDING FEBRUARY 1st, 1899.

ALEXANDER FERTILIZER AND CHEMICAL COMPANY, ALEXANDRIA, VA.

Ammoniated Dissolved Bone.
Pure Raw Bone Meal.
Potomac Fertilizer.

BALTIMORE SEED AND IMPLEMENT CO., BALTIMORE, MD.

High Grade Acid Phosphate.
Pure Dissolved Animal Bone.
Soft Ground Bone.

A. D. BIRELY & SONS, LADIESBURG, MD.

Ammoniated Bone.
Dissolved Bones.

JOHN BULLOCK & SON, BALTIMORE, MD.

Pure Ground Raw Bone.

JOHN BURGOON, UNION MILLS, MD.

XX Ammoniated Bone Phosphate.

CHEMICAL COMPANY OF CANTON, BALTIMORE, MD.

Baker's Standard Ground Bone.
Patrons' Bone Mixture.

E. A. CLENDENNIN & BRO., COLORA, MD.

National Standard Ammoniated Phosphate.

WM. DAVISON & CO., BALTIMORE, MD.

Bos Ammoniated Super Phosphate.
High-Grade Super Phosphate.
Pen-Mar Ammoniated Bone Phosphate.
Special Mixture.

E. E. DE LASHMUTT, FREDERICK, MD.

Mixture of Fish and Bone.

L. E. P. DENNIS & SON, CRISFIELD, MD.

Fish and Potash No. 1.
Fish and Potash No. 2.
Truck and Tomato.

JOSHUA W. DORSEY, ELLICOTT CITY, MD.
Ammoniated Phosphate.
Mixture "D."
Stag Potato Phosphate.

P. P. DUNAN, BALTIMORE, MD.
Ammoniated Alkaline Bone Phosphate.

T. W. ELIASON, CHESTERTOWN, MD.
No. 1.
M. P. Compound.
Our Special.

EUREKA FERTILIZER COMPANY, PERRYVILLE, MD.
Alkaline Bone and Potash.
Bone Meal.
Farmers' Favorite Bone Phosphate.
Fish, Rock and Potash.
Grain and Grass Mixture.
P. & P. Super Phosphate.
Pure Dissolved Animal Bone.

WASHINGTON EWING, FERTILIZER WORKS, LANDENBURG, PENNSYLVANIA.
Pure Raw Ground Bone.

M. P. HUBBARD & CO., BALTIMORE, MD.
Celebrated Dissolved Bone Phosphate.
Farmers' Acme.
Havana Special.

JOSHUA LINTHICUM, JR.
Linthicum's Special Mixture.

WM. McKENNY, CENTREVILLE, MD.
Compound Fertilizer.
No. 1 D Wheat Fertilizer.
Soluble No. 3 Phosphate.

MILLER FERTILIZER COMPANY, BALTIMORE, MD.
Clinch Phosphate.
Hustler Phosphate.
S. C. Rock.
Special Wheat Grower.
W. G. Phosphate.

H. C. MILLER, WASHINGTON GROVE, MD.
Export Bone and Potash.
Fine Ground Bone.

NICKERSON FERTILIZER COMPANY, EASTON, MD.
Eastern Shore Domestic Guano.
Mixture.

PIEDMONT-MT. AIRY GUANO COMPANY, BALTIMORE, MD.
Mt. Airy Garden and Truck Fertilizer.
Piedmont Guano for Wheat.

R. H. POLLOCK, BALTIMORE, MD.
Ammoniated Bone Phosphate.
Dissolved Animal Bone.

RAMSBURG FERTILIZER COMPANY, FREDERICK, MD.
Excelsior Half and Half.
Wheat Mixture.

RASIN FERTILIZER COMPANY, BALTIMORE, MD.
Judge Robert's Special Mixture.

REINDOLLAR & CO., TANEYTOWN, MD.
Fish Phosphate.
Special Mixture.

ISAAC ROBINSON, BALTIMORE, MD.
Fish, Rock and Potash.
H. G. Soluble Phosphate.
Potashed Bone.
Special Wheat and Grass Phosphate.

SLINGLUFF & CO., BALTIMORE, MD.
Baltimore Dissolved Bone.

J. W. STONEBRAKER & SON, HAGERSTOWN, MD.
Bone Meal.
Dissolved Bone.
Dissolved Bone Phosphate.
Special.

JOSEPH A. STOUFFER, NEW WINDSOR, MD.
Butcher House Phosphate.
Soluble Wheat Grower.

I. P. THOMAS & SONS CO., PHILADELPHIA, PA.
S. C. Phosphate.

TYGERT-ALLEN FERTILIZER COMPANY, PHILADELPHIA, PA.
Alkaline Bone Phosphate.
Ammoniated Bone Phosphate.
Beverly Mixture.
German Kainit.
Prairie Bone Meal.
Pure Ground Bone.

J. TYSON & SON, FREDERICK, MD.

Dissolved South Carolina.
Half and Half.
Special Mixture.

W. H. D. WARFIELD, SYKESVILLE, MD.

Wheat and Grass Mixture.

LIST OF FERTILIZERS LICENSED FOR SALE IN MARYLAND, FOR THE YEAR ENDING FEBRUARY 1st, 1900.

ARMOUR FERTILIZER WORKS, CHICAGO, ILL.
- Fruit and Root Crop Special.
- Bone Meal.
- Grain Grower.
- Wheat, Corn and Oats Special.

THE BERG COMPANY, PHILADELPHIA, PA.
- Raw Bone Fine.
- Special $25 Bone Manure.

M. BOHANAN & CO., BALTIMORE, MD.
- Choice.
- Leader.

CHAS. E. BOND, SPENCERVILLE, MD.
- Dissolved Rock.
- Pure Ground Bone.

JAS. BONDAY, Jr. & CO., BALTIMORE, MD.
- Kainit.
- Muriate of Potash.
- Sulphate of Potash.

JOSIAH COPE & CO., LINCOLN UNIVERSITY, PA.
- Acidulated Phosphate or Rock.
- Ammoniated Bone Phos.
- Try Me Bone Phos.

DETRICK FERTILIZER AND CHEMICAL CO., BALTIMORE, MD.
- Ammoniated Bone Phosphate.
- Corn Fertilizer.
- Dissolved Bone.
- Dissolved S. C. Bone.
- Farmers' Friend.
- Farmers' New Method Phosphate.
- Fish Mixture.
- Gold Eagle.
- Imperial Compound.
- Potato Fertilizer.
- Pure Raw Bone.
- Royal Crop Grower.
- Sea Fowl Guano.

Soluble Bone Phosphate and Potash.
Special Mixture.
Standard Potato Fertilizer.
Vegetable Compound.
Vegetator Ammon. Superphos.
Wheat Fertilizer.

LOUIS F. DETRICK, BALTIMORE, MD.
Bone and Potash Mixture.
Gold Basis Bone Truck Phosphate.
Kangaroo Komplete Kompound. (K. K. K.)
Orchilla Guano.
Silver Gray A. A. Phosphate.
Sockless and Shoeless Phosphate.
XXtra Acid Phosphate.
Gold Basis.
Honest Dollar.

DUDLEY & CARPENTER, BALTIMORE, MD.
California Tobacco Compound.
South Carolina Rock.
Special Tobacco Plant Grower.
Special Wheat Mixture.

THOS. W. ELIASON, CHESTERTOWN, MD.
M. P. Compound.
No. 1 Ammoniated Super Phos. of Lime and Potash.
Our Special.

ENGLAR & RINEHART, LINWOOD, MD.
No. 1 Ammon. Bone Phosphate.
No. 2 Ammon. Bone Phosphate.

FARMERS' FERTILIZER COMPANY, WESTMINSTER, MD.
Dissolved Animal Bone.
No. 1 Bone Phosphate.
No. 2 Bone Phosphate.
No. 3 Bone Phosphate.
No. 4 Bone Phosphate.
S. C. Rock.

W. S. FARMER & CO., BALTIMORE, MD.
B. & P.
Clyde.
Harvest Queen.
Potato Manure No. 1.
Standard.
Tobacco and Potato.

GRIFFITH & TURNER CO., BALTIMORE, MD.
Ammoniated Alkaline Plant Food.
Ammoniated Butchers' Bone Phosphate.
Animal Bone Phosphate.
Dissolved Bone.
High Grade Acid Phosphate.
Soft Ground Bone.

N. I. GORSUCH & SON, WESTMINSTER, MD.
No. 3, XXXX Bone.
Westminster Dis. Raw Bone Phos.

JOSHUA HORNER, Jr. & CO., BALTIMORE, MD.
Ammoniated Raw Bone Super Phos.
Cultivator.
Dis. Slaughter House Bone Dust.
Slaughter House Bone Dust.
Virginia Tobacco Sustain.

HANOVER BONE FERTILIZER CO., (Limited) HANOVER, PA.
Blood and Bone Compound.
Dissolved Bone Phosphate.
Excelsior Combine.
Farmers' Crop Winner.
Klondike Special for Tobacco and Potatoes.
Pure Bone Meal.
S. C. Rock.

HOOD & MAYNARD, MT. AIRY, MD.
Special Mixture for Grain and Grass.

HANWAY & KEEN, BEL AIR, MD.
Special Mixture.
Standard High Grade Guano.

S. M. HESS & BRO., PHILADELPHIA, PA.
Ammo. Bone Super.
Bone and Potash.
Ground Bone.
Keystone Bone.
Potato Truck Manure.
Soluble Bone.
Special Compound.
Wheat and Grass Manure.

THOS. C. HUNTER, WHITE HALL, MD.
Extra Ammoniated Bone Phosphate.

J. B. NICHOLS & SON, BALTIMORE, MD.
Farmer's Friend.

LAZARETTO GUANO CO., BALTIMORE, MD.

Alkaline Phosphate.
Ammoniated Bone Phosphate.
Bone Compound for Wheat, Corn, Oats and Grass.
Crop Grower, Specially Adapted to Cotton, Corn, and Root Crops.
Early Trucker for Promoting Quick Growth.
Forsythe & Linthicum Mixture.
Horford Bone.
Pure Dis. S. C. Bone.
Pure Ground Animal Bone.
Pure Dis. Animal Bone.
Special Tobacco and Potato Fertilizer.
Retriever Animal Bone Phosphate.

LISTER'S AGRICULTURAL CHEMICAL WORKS, NEWARK, N. J.

Harvest Queen Phosphate.
Pure Raw Bone Meal.
Special Potato Fertilizer.
Standard Pure Bone Superphos. of Lime.

T. H. LONGFELLOW, GREENSBOROUGH, MD.

Crop Grower.
Farmer's Delight No. 1.
Truck and Berry.

MD. FERTILIZING AND MFG. CO., BALTIMORE, MD.

Alkaline Bone.
Ammoniated Bone.
Bone Superphosphate.
Dissolved Animal Bone.
Dissolved Phosphate.
Dissolved S. C. Bone.
Fine Ground Animal Bone.
Globe Complete Manure.
Linden Superphosphate.
O. K. Ammoniated Fertilizer.
Potato Food.
Sangston's Cerial and Plant Food.
Tornado Fertilizer.

F. MEHRING, BRUCEVILLE, MD.

Acid Phosphate.
Dissolved Raw Bone.
Emmert's Half and Half.
General Crop Grower.
Twenty Six Dollar Phosphate.

GEO. R. MOWELL, GLENCOE, MD.

Pure Dis. S. C. Rock.
Standard Bone Phosphate.

PATAPSCO GUANO CO., BALTIMORE, MD.

Balto. Soluble Phosphate.
Coon Brand Guano.
Corn and Tomato Fertilizer.
Dis. Raw Bone.
Early Trucker for Quick Growth.
Grain and Grass Producer.
Grange Mixture.
High Grade Bone and Potash.
Pure Dis. S. C. Bone.
Pure Ground Bone.
Sea Gull Guano.
Spec. Wheat Compound, Animal Bone Base.
Tobacco Fertilizer.
Tobacco and Potato Fertilizer.

PIEDMONT MT. AIRY GUANO CO., BALTIMORE., MD.

Caroline Mixture for All Crops.
Dis. S. C. Bone.
Insula Guano for Corn, Oats, &c.
Mt. Airy Garden and Truck Fertilizer.
P. P. P. Piedmont Potato Producer.
Piedmont Dissolved Bone Phos. Potash Goods.
" Pure Raw Bone Mixture.
" Royal Ammoniated Bone.

PACKERS' UNION FERTILIZER CO., NEW YORK.

Acidulated Bone.
Banner Wheat Grower.
Universal Fertilizer.

RASIN—MONUMENTAL CO., BALTIMORE, MD.

Monumental Acid Phosphate.
" Arundel Complete.
" Potato Manure.
" Soluble Bone Phosphate and Potash.
Wm. Penn Crop Grower.
Rasin's Acid Phosphate.
" Ammoniated Super Phos.
" Ammoniated Alk. Phos.
" Bone and Potash.
" Dissolved Bone.
" Empire Guano.
" I. X. L.
" Special Potato Fertilizer.

JOHN S. REESE & CO., BALTIMORE, MD.

Ammoniated Bone Phosphate Mixture.
Crown Phosphate and Potash.
Dissolved Phosphate of Lime.

CHAS. SCHAEFFER, WESTMINSTER, MD.

Big Gun.
Governor.
High Grade Acid Phos. or Dis. S. C. Rock.
Leader.
Pride.
Super A.

SOUTHERN FERTILIZER CO., YORK, PA.

Dissolved Raw Bone.
Ammoniated Dissolved Bone.
Dissolved Bone Phosphate.
Export Bone and Potash.
Farmers Choice.
Fine Raw Bone.
Gardeners' and Truckers' Delight
General Crop Grower.
Pure Ground Bone.
Pure Ground Bone.
Soluble Bone and Potash.

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R. B. Tenney Pure Ground Bone Dust.

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CONTENTS OF THIS NUMBER.

	PAGE.
Schedule of Valuations,	2
Tabulated Analyses of Fertilizers,	4-39
Ground Bone, Analysis of	36-39
Licensed Brands for 1898, (supplementary list),	40-43
" " " 1899,	44-50